

STRUCTURED PRIVATE ADDRESSING AND NAMING FOR MANAGEMENT OF SERVICE AND NETWORK RESOURCES

ABSTRACT

Described are a system and method for identifying private resources associated with a communications network. A structured address format is defined having a plurality of character positions. Each character position is associated generally with a property of a managed resource in the communications network. A structured private address, constructed according to the structured address format, is assigned to the managed resource. Each character position of the assigned structured address has a value that identifies a specific instance of the property of the managed resource associated with that character position. Operations Systems Support (OSS) gives a common name to the managed resource and maintains an association between the common name and the structured address. The structured address format can follow a four-byte dotted decimal notation similar to IPv4 addresses. For addresses following this format, the OSS can use standard domain name system services to translate between common names and structured addresses.